

### Listing of Claims

The following listing of claims is intended to supercede all previously filed listings of claims. Changes are shown with deletions in ~~striketrough~~ and additions underlined.

Kindly enter the following amendments to the claims:

**Claim 1 (currently amended).** A method of assisting a stenting procedure in a human or an animal, comprising the steps of:

obtaining a first set of intracranial blood flow data from a patient;

generating ~~at least two~~ blood flow factor values from said first set of blood flow data, the blood flow factor values including at least a value for mean blood flow velocity and a value for systolic acceleration;

correlating said ~~at least two~~ blood flow factor values; ~~and~~

assessing blood flow based upon said correlated blood flow factor values; and

inserting a stent at a location within a lumen, the location being based upon the assessed blood flow.

**Claim 2 (cancelled).**

**Claim 3 (currently amended).** The method of claim 2~~1~~, wherein said stent is expanded in stages.

**Claim 4 (currently amended).** The method of claim 1, wherein said steps of obtaining a first set of blood flow data, generating at least two blood flow factor values from said first set of blood flow data, correlating said at least two blood flow factor values and assessing blood flow at least on said correlated blood flow factor values occur before inserting ~~a~~the stent.

**Claim 5 (currently amended).** The method of claim 1, ~~wherein said~~ further comprising performing the steps of obtaining a ~~first~~second set of blood flow data, generating at least two blood flow factor values from said ~~first~~second set of blood flow data, correlating said at least two blood flow factor values and assessing blood flow at least on said correlated blood flow factor values ~~occur~~ after inserting ~~a~~the stent.

**Claim 6 (currently amended).** The method of claim 1, wherein said ~~at least two~~ blood flow factor values also include at least one of a ~~mean flow velocity value, a systolic acceleration value,~~ a pulsatility index value, a natural logarithm of systolic acceleration value, a peak systolic velocity value, an end diastolic velocity value, a peak systolic time value, an end diastolic time value, an acceleration/mean flow velocity index value, a velocity/impedance index value and an acceleration/impedance index value.

**Claim 7 (currently amended).** The method of claim ~~1~~6, further comprising the step of correlating at least three blood flow factor values.

**Claim 8 (original).** The method of claim 1, wherein said step of obtaining intracranial blood flow data comprises use of emissive and reflective wave technology.

**Claim 9 (original).** The method of claim 8, wherein said emissive and reflective wave technology includes ultrasound technology.

**Claim 10 (original).** The method of claim 9, wherein said ultrasound technology includes Doppler technology.

**Claim 11 (original).** The method of claim 9, wherein said ultrasound technology includes thin wire intravascular ultrasound technology.

**Claim 12 (original).** The method of claim 8, wherein said emissive and reflective wave technology includes laser technology.

**Claim 13 (original).** The method of claim 1, further comprising the step of generating a reference data set of correlated blood flow factor values.

**Claim 14 (original).** The method of claim 1, further comprising the step of supplementing a reference data set of correlated blood flow factor values with additional correlated blood flow factor values and data.

**Claim 15 (original).** The method of claim 1, further comprising the step of comparing said correlated blood flow factor values with a reference data set of correlated blood flow factor values.

**Claim 16 (original).** The method of claim 1, further comprising the step of designing a stent.

**Claim 17 (original).** The method of claim 16, further comprising the step of infusing a stent with at least one chemical composition.

**Claim 18 (original).** The method of claim 16, further comprising the step of coating a stent with at least one chemical composition.

**Claim 19 (original).** The method of claim 16, further comprising the step of inserting the blood flow factor values into a schema.

**Claim 20 (new).** The method of claim 1, wherein the step of assessing blood flow based upon said correlated blood flow factor values includes evaluating the patient's anticipated reaction to a proposed treatment approach.